

**Notice of Allowability**

Application No.

10/719,077

Examiner

Tung S. Lau

Applicant(s)

MCGLAUGHLIN ET AL. *hw*

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2863

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 02/21/2006.
2. ☒ The allowed claim(s) is/are 1,3-29 and 32-35.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|   | 9. <input type="checkbox"/> Other _____   |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 02/21/2006 has been entered.

### **Prior Art Cited**

2. Although the prior art discloses several claimed limitation, for example: Kerstein (U.S. Patent 6,292,483) discloses a network switch configured for switching data packets across multiple switch ports uses programmable hash functions to generate a hash key for each network address to access an address table storing switching logic. The address table is configured to include a programmable number of bin entries, where each bin entry is configured to reference a plurality of address table entries storing the switching logic information for respective network addresses. The address of an incoming data packet is used to generate a hash key that references a selected one of the bin entries. The switching logic for the corresponding address is then obtained by accessing the appropriate table entry referenced by the selected bin entry. If the number of table entries for a given bin exceeds a prescribed threshold, an external host reprograms the network switch to use another hash key to maintain

an efficient access throughput of the address table. Use of programmable hash keys also enables the host processor to use different hash key polynomials for different network configurations to optimize the table access throughput.

***Allowable Subject Matter***

3. Claims 1, 3-29, 32-35 are allowed.

***Reasons for Allowance***

4. The following is an examiner's statement of reasons for allowance:

Independent claims 1, 5, 7, 10, 17, 21 and 27 contain allowable subject matter.

None of the prior art of record shows or fairly suggests the claimed invention.

Regarding claim 1:

The primary reason for the allowance of claim 1 is the inclusion of the system for monitoring events in a storage area network including an event Response Director that selects an event in an Event Response Table and sends control signals to a Local Event Handler and an External Event Generator, and the Local Event *Handler* performs control actions on a local fabric switch and the External Event Generator sends input/output registered state change notices to host computer systems; and the event response table and the threshold table is updated by a threshold event configuration module based on historical data. It is these features found in the claim, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes this claim allowable over the prior art.

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Claims 3 and 4 are allowed due to their dependency on claim 1.

Regarding claim 5:

The primary reason for the allowance of claim 5 is the inclusion of the system for monitoring events in a storage area network including sends a message to an event response director that selects an event in an event response table and sends control signals to a local event handler and an external event generator, and the local event handler performs control actions on a local fabric switch and the external event generator sends input/output registered state change notice to host computing systems; and the event response table and the threshold table are updated by a threshold event configuration module based on historical data. . It is these features found in the claim, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes this claim allowable over the prior art.

Claim 6 is allowed due to their dependency on claim 5.

Regarding claim 7:

The primary reason for the allowance of claim 7 is the inclusion of the system for monitoring events in a storage area network including sends a message to an event response director that selects an event in an event response table and sends control signals to a local event handler and an external event generator, and the local event handler performs control actions on a local fabric switch and

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the external event generator sends input/output registered state change notice to host computing systems; and the event response table and the threshold table are updated by a threshold event configuration module based on historical data.

It is these features found in the claim, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes this claim allowable over the prior art.

Claims 8 and 9 is allowed due to their dependency on claim 7.

Regarding claim 10:

The primary reason for the allowance of claim 10 is the inclusion of the system for monitoring events in a storage area network including sends a message to an event response director that selects an event in an event response table and sends control signals to a local event handler and an external event generator, and the local event handler performs control actions on a local fabric switch and the external event generator sends input/output registered state change notice to host computing systems; and the event response table and the threshold table are updated by a threshold event configuration module. It is these features found in the claim, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes this claim allowable over the prior art.

Claims 11-16 are allowed due to their dependency on claim 10.

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Regarding claim 17:

The primary reason for the allowance of claim 17 is the inclusion of the method for monitoring agent in a fibre channel fabric switch monitor the parameter including sends a message to an event response director that selects an event in an event response table and sends control signals to a local event handler and an external event generator, and the local event handler performs control actions on a local fabric switch and the external event generator sends input/output registered state change notice to host computing systems; and the event response table and the threshold table are updated by a threshold event configuration module based on historical data. It is these features found in the claim, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes this claim allowable over the prior art.

Claims 18-20 are allowed due to their dependency on claim 17.

Regarding claim 21:

The primary reason for the allowance of claim 21 is the inclusion of the system for monitoring events in a storage area network including sends a message to an event response director that selects an event in an event response table and sends control signals to a local event handler and an external event generator, and the local event handler performs control actions on a local fabric switch and the external event generator sends input/output registered state change notice to

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host computing systems; and the event response table and the threshold table are updated by a threshold event configuration module. It is these features found in the claim, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes this claim allowable over the prior art.

Claims 22-26 are allowed due to their dependency on claim 21.

Regarding claim 27:

The primary reason for the allowance of claim 27 is the inclusion of a fibre fabric switch element including the performance monitor sends a message to an event response director that selects an event in an event response table and sends control signals to a local event handler and an external event generator, and the local event handler performs control actions on a local fabric switch and the external event generator sends input/output registered state change notice to host computing systems; and the event response table and the threshold table are updated by a threshold event configuration module. It is these features found in the claim, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes this claim allowable over the prior art.

Claims 28, 29 and 32-35 are allowed due to their dependency on claim 27.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung S Lau whose telephone number is 571-272-2274. The examiner can normally be reached on M-F 9-5:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on 571-272-2269. The fax phone numbers for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TL

BRYAN BUI  
PRIMARY EXAMINER

